

Fig. 1A

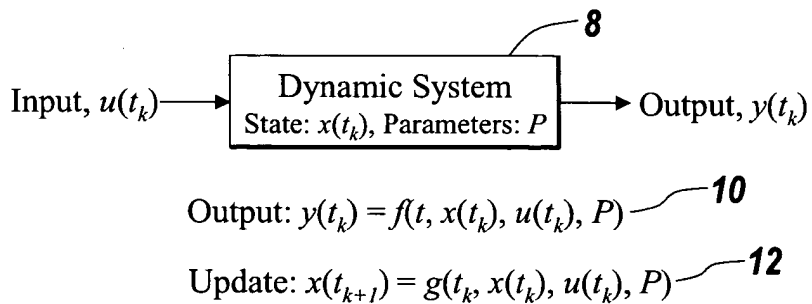


Fig. 1B

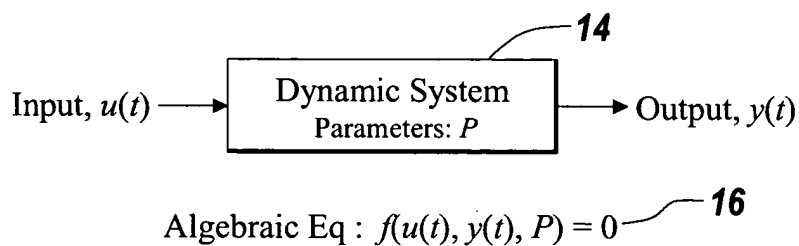


Fig. 1C

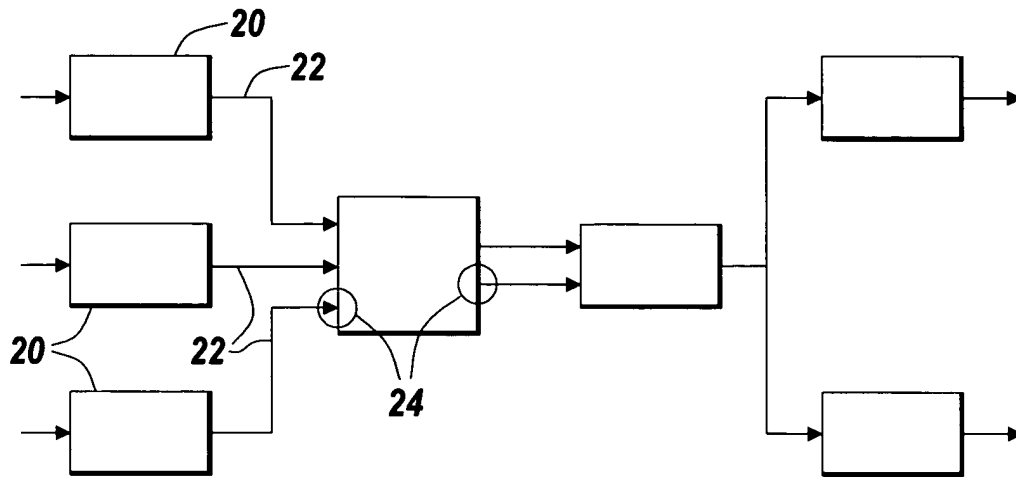


Fig. 2

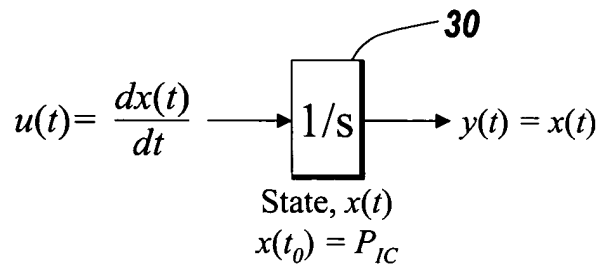


Fig. 3

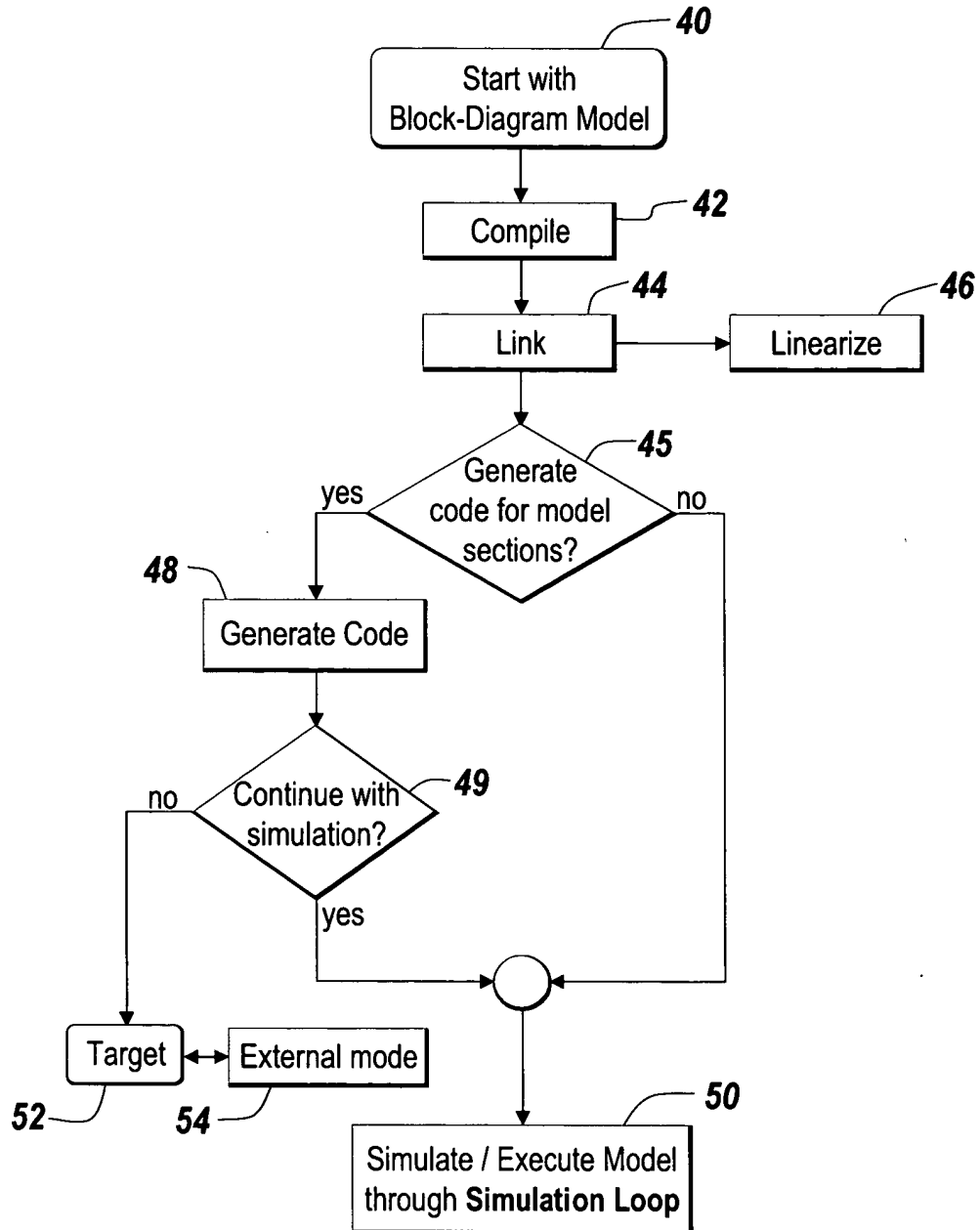


Fig. 4

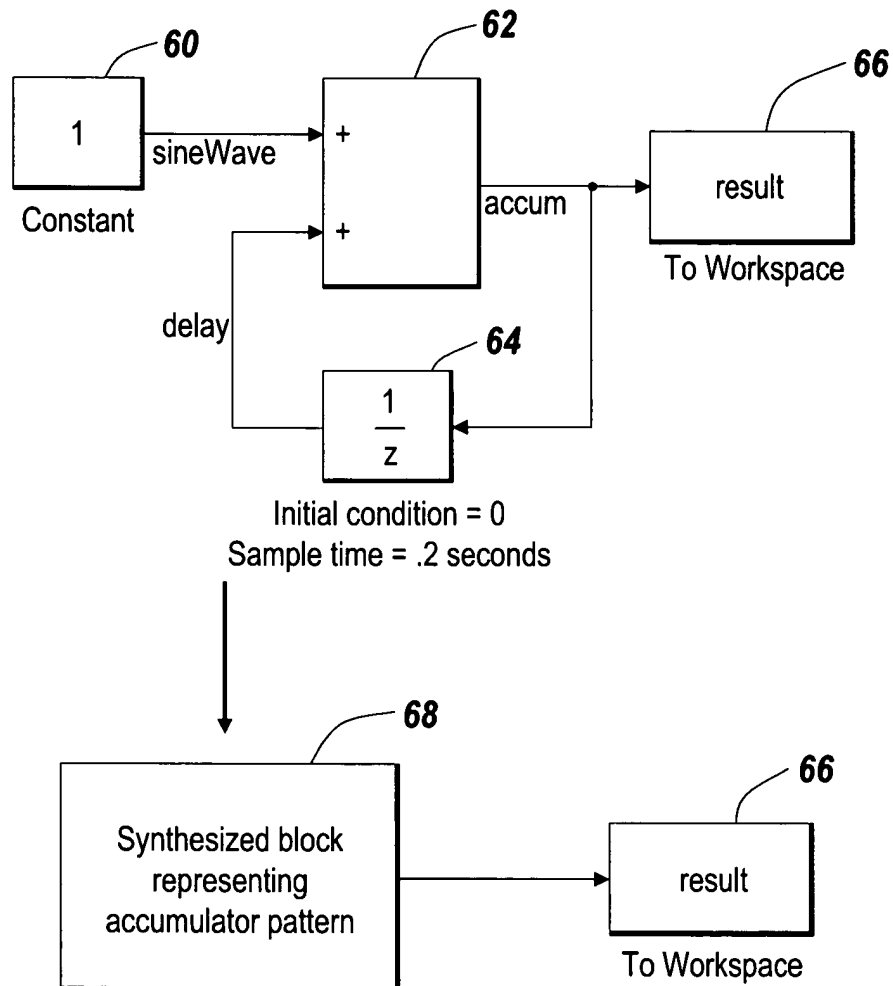


Fig. 5

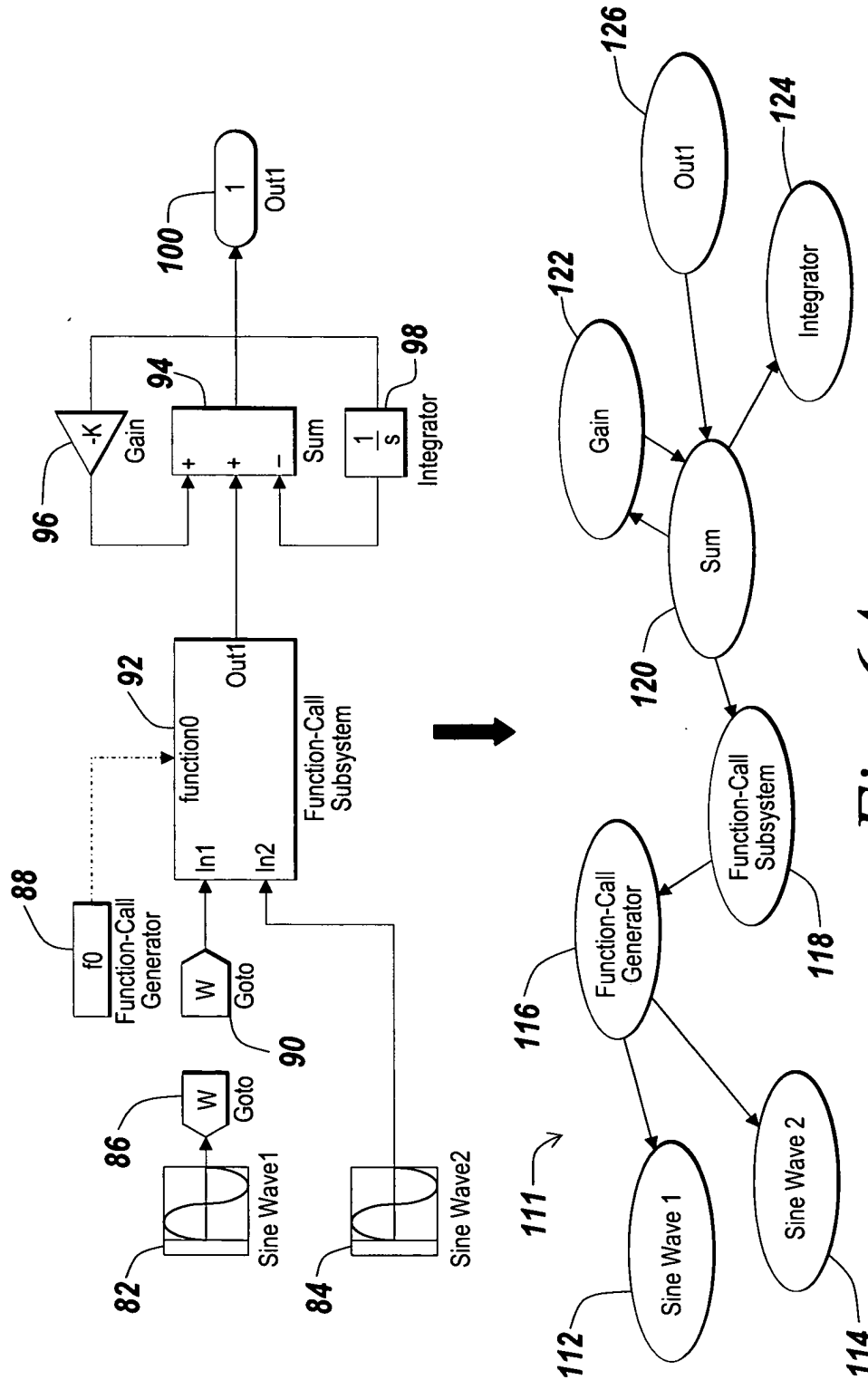


Fig. 6A

Sorted List:

128
↙

0:0 Sine Wave 1
0:1 Sine Wave 2
0:2 Function-Call Generator
0:3 Function-Call Subsystem
0:4 Integrator
0:5 Gain (algebraic id 0#1)
0:6 Sum (algebraic variable for id 0#1)
0:7 Out1

Fig. 6B

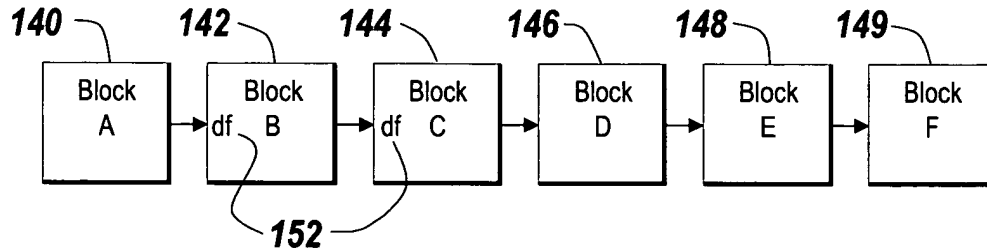


Fig. 7A

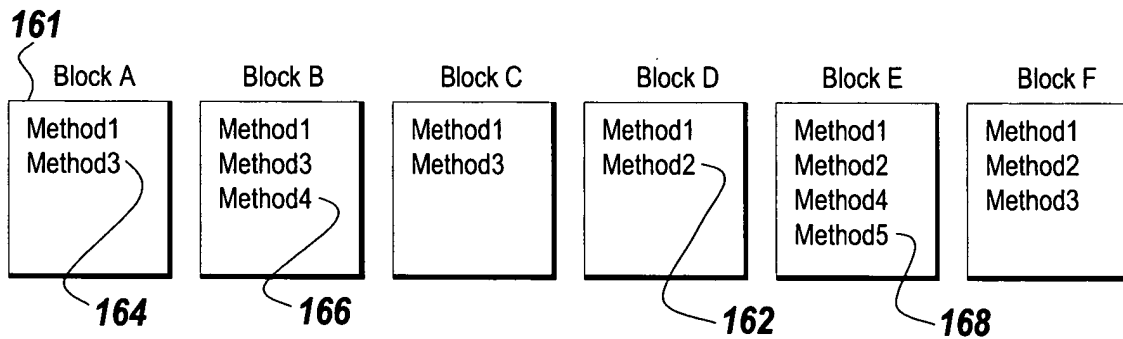


Fig. 7B

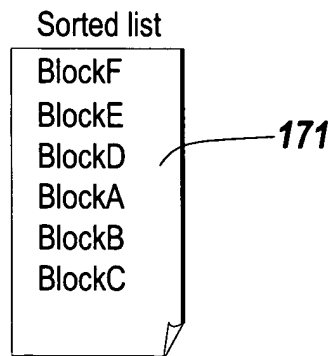


Fig. 7C

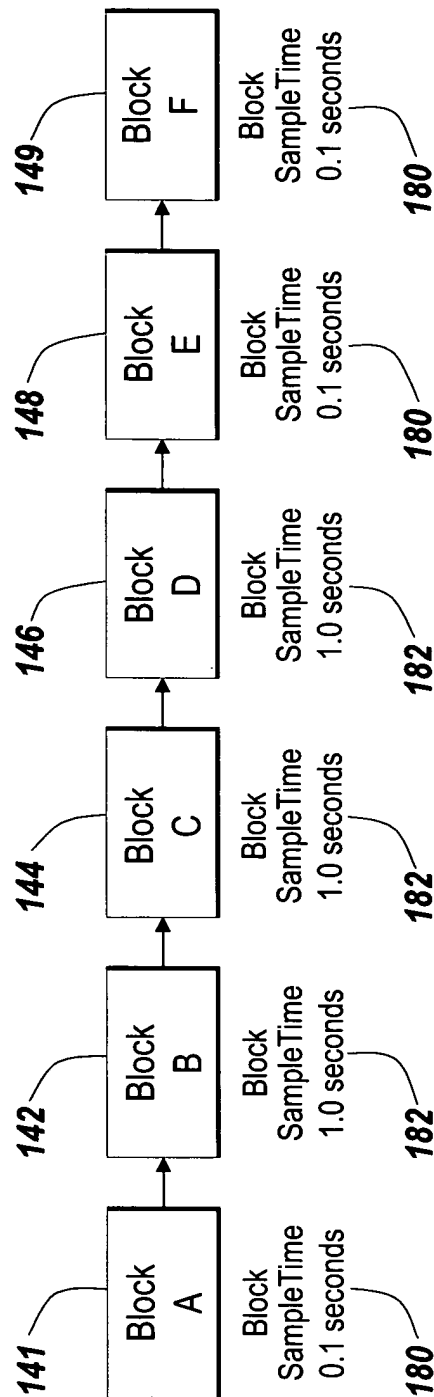


Fig. 8

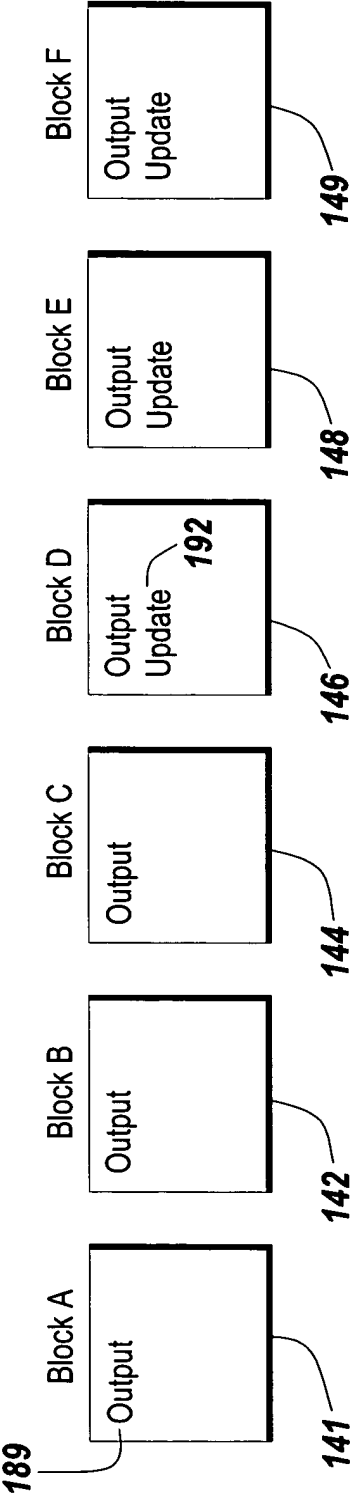


Fig. 9

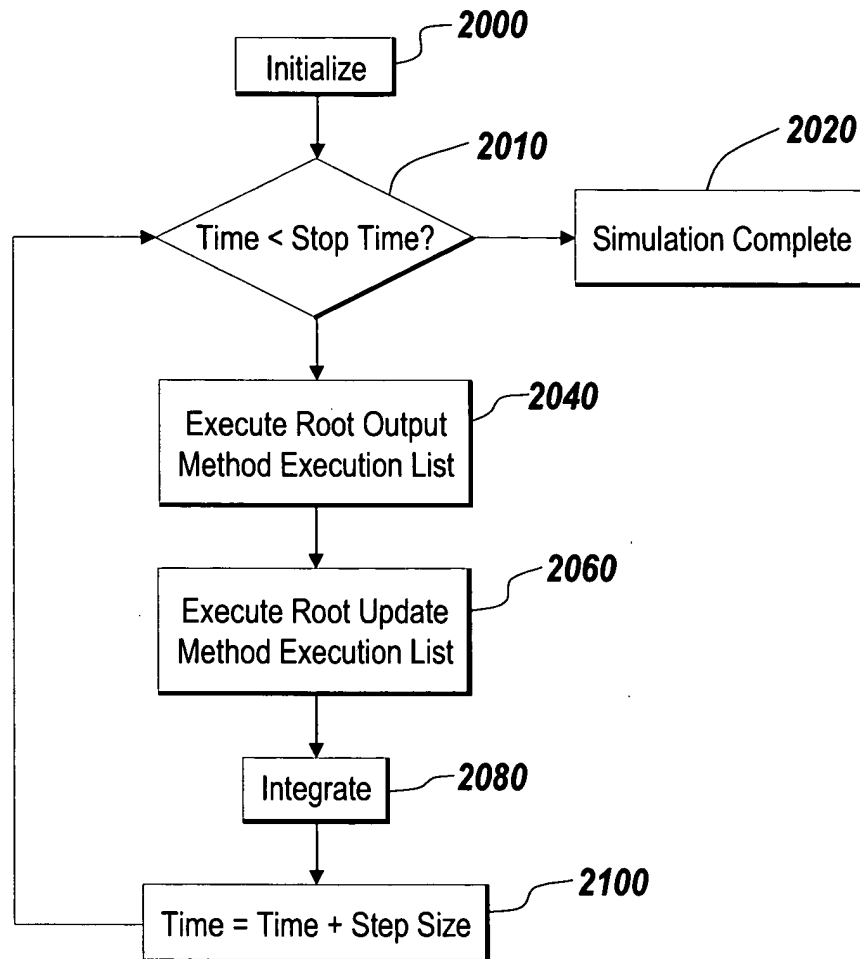


Fig. 10

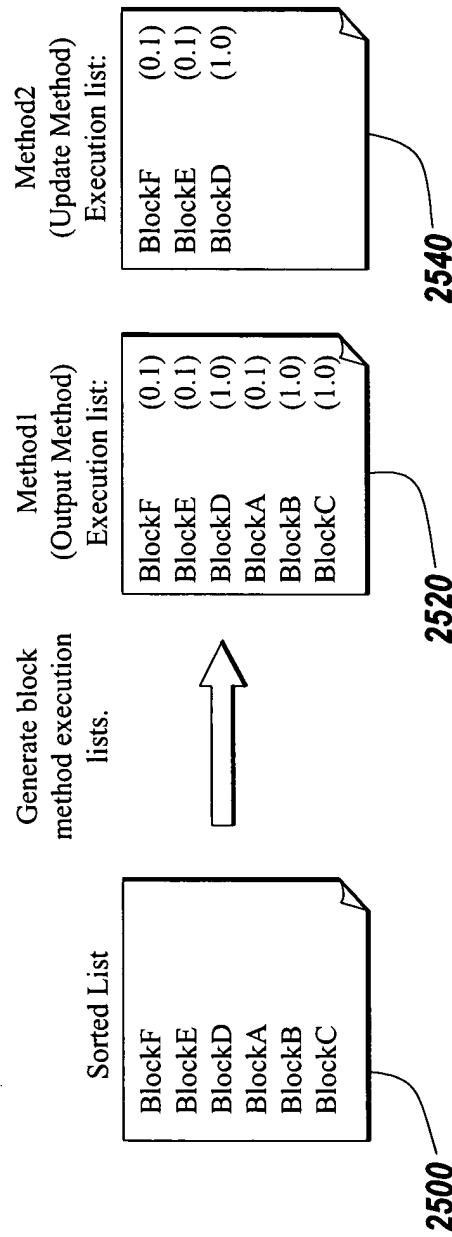


Fig. 11A

Sorted list	Sample time
F(output/update)	0.1
E(output/update)	0.1
D(output/update)	1
A(output)	0.1
B(output)	1
C(output)	1

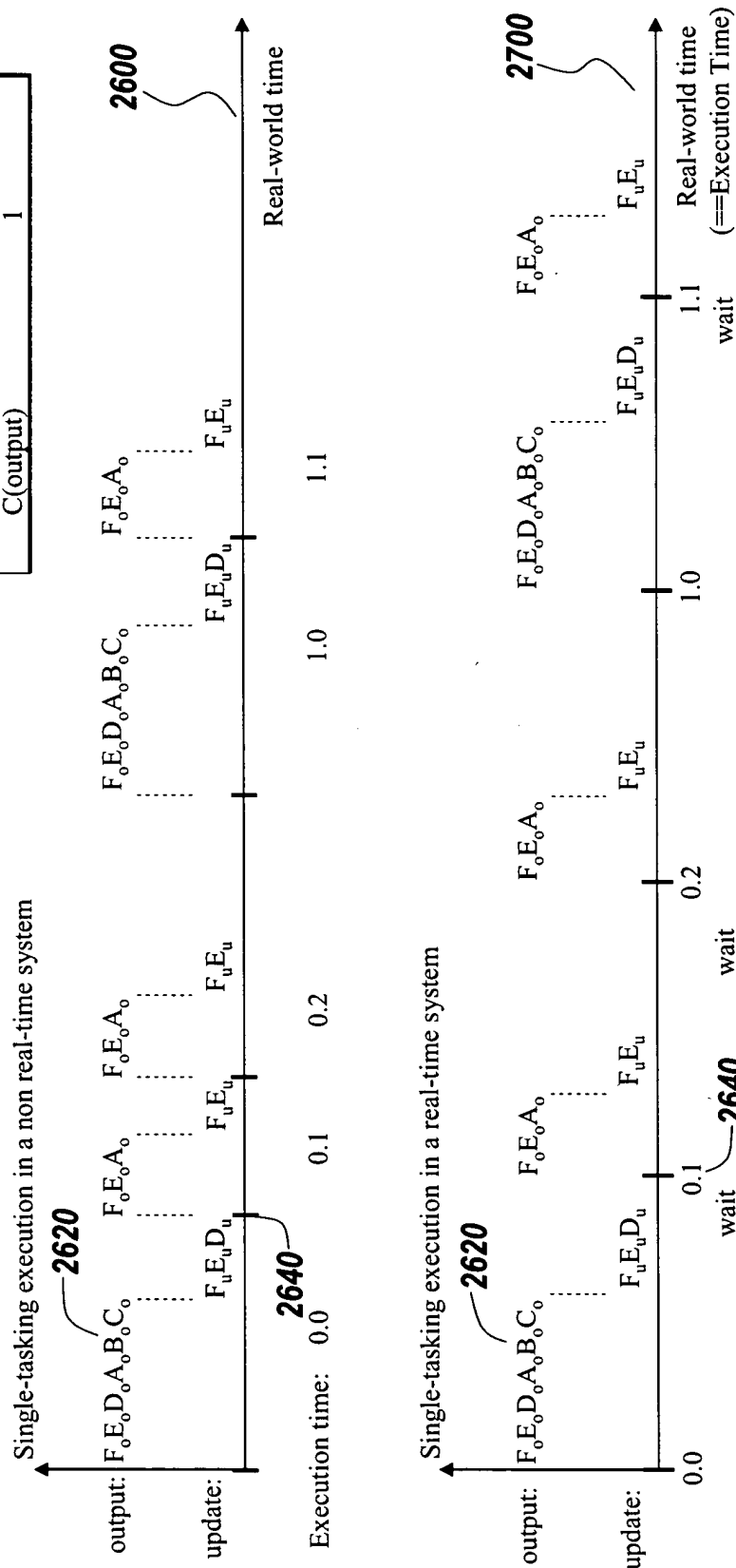


Fig. 11B

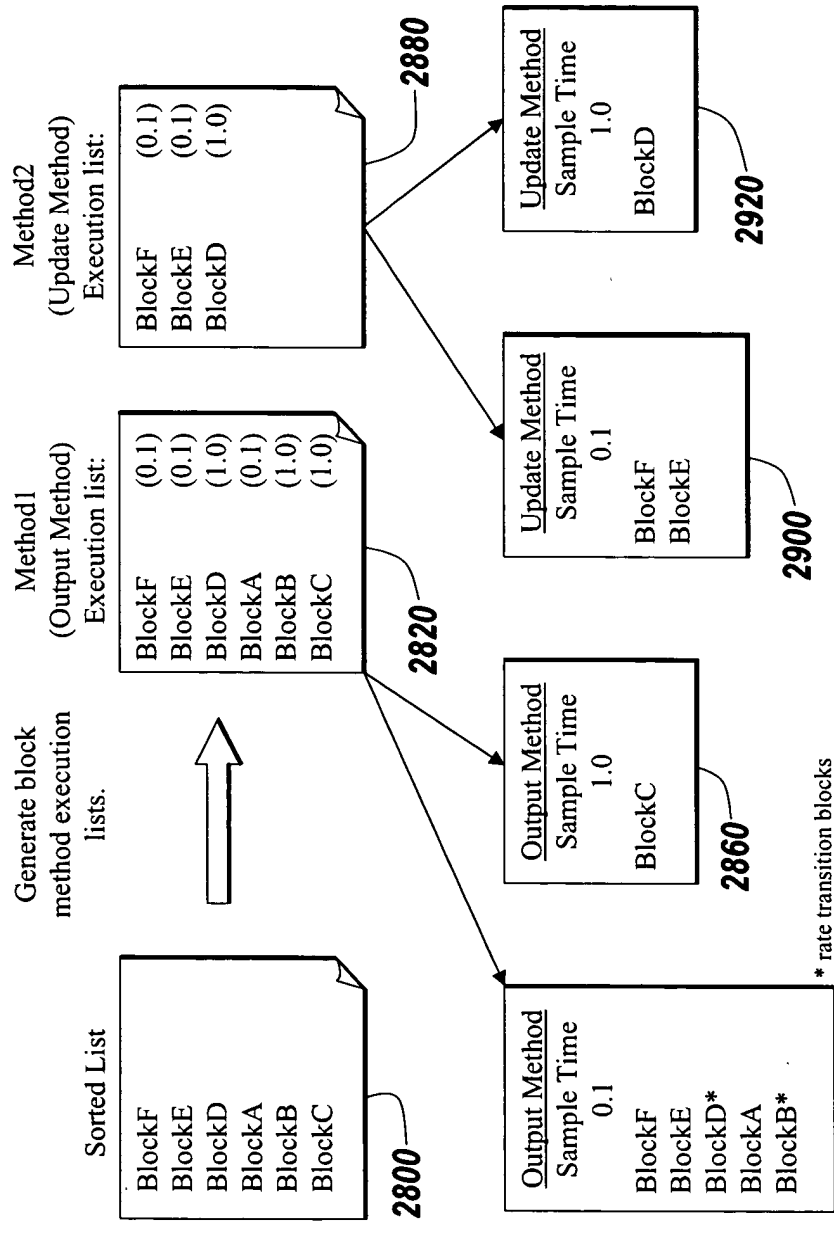
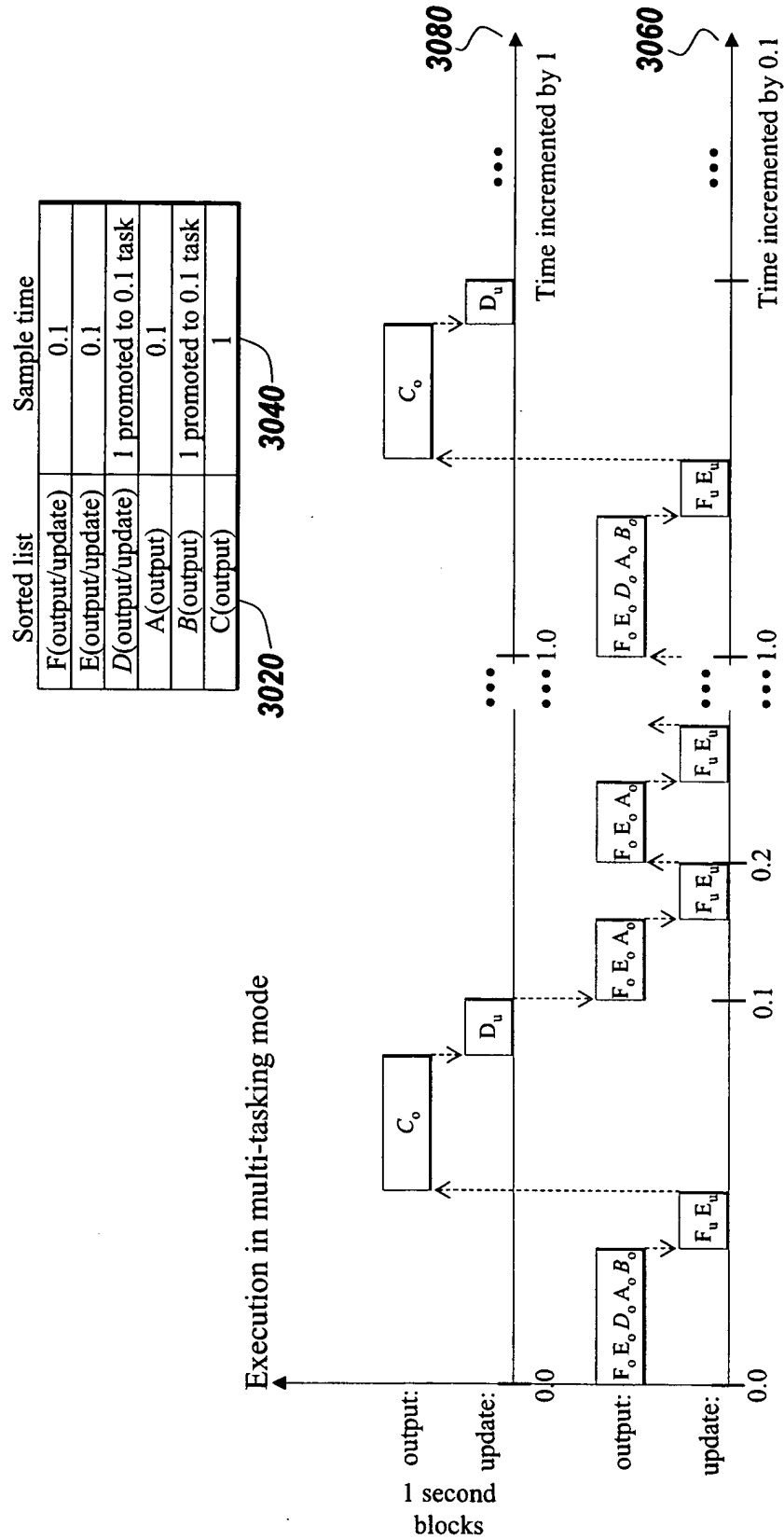


Fig. 12A



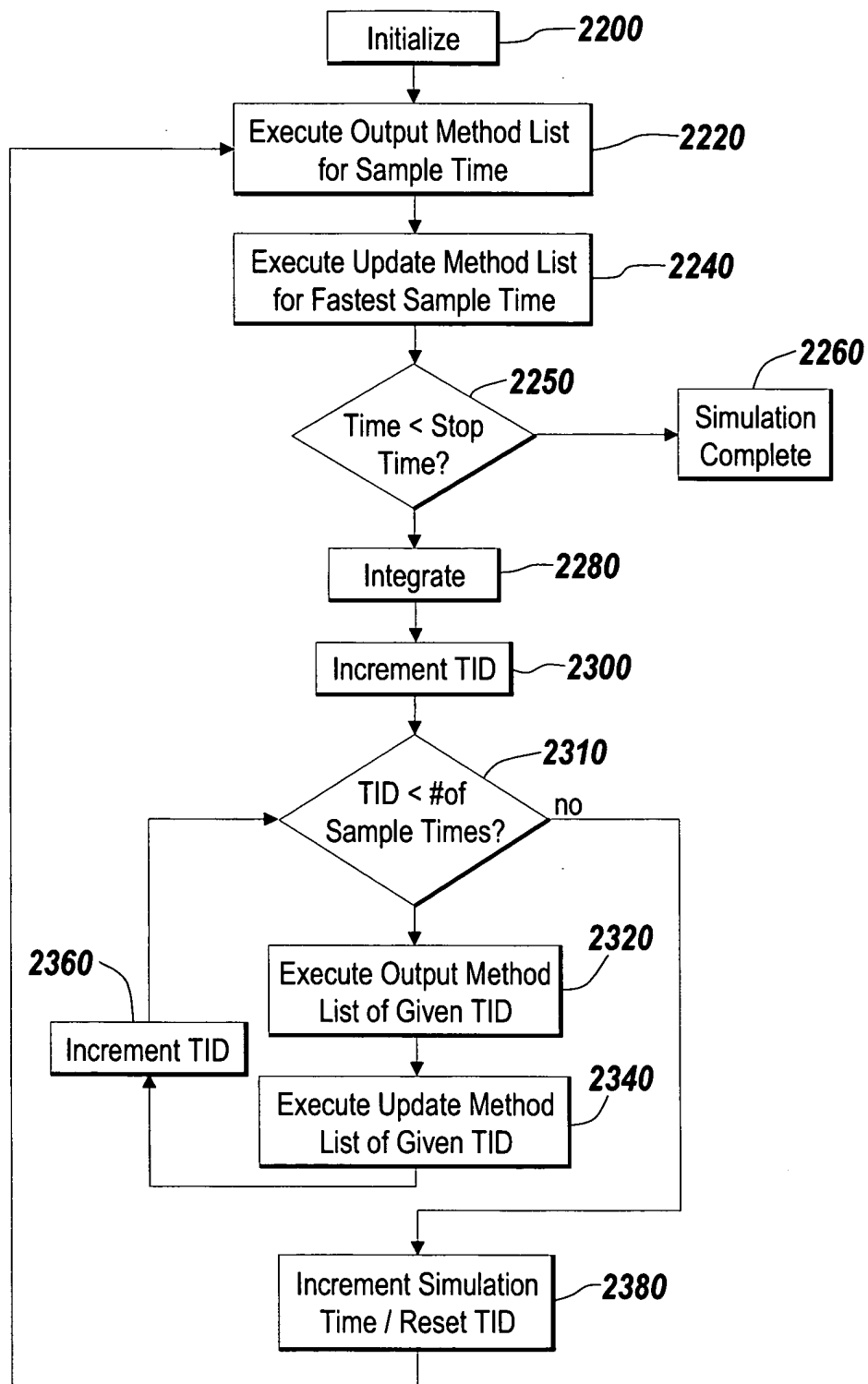


Fig. 13

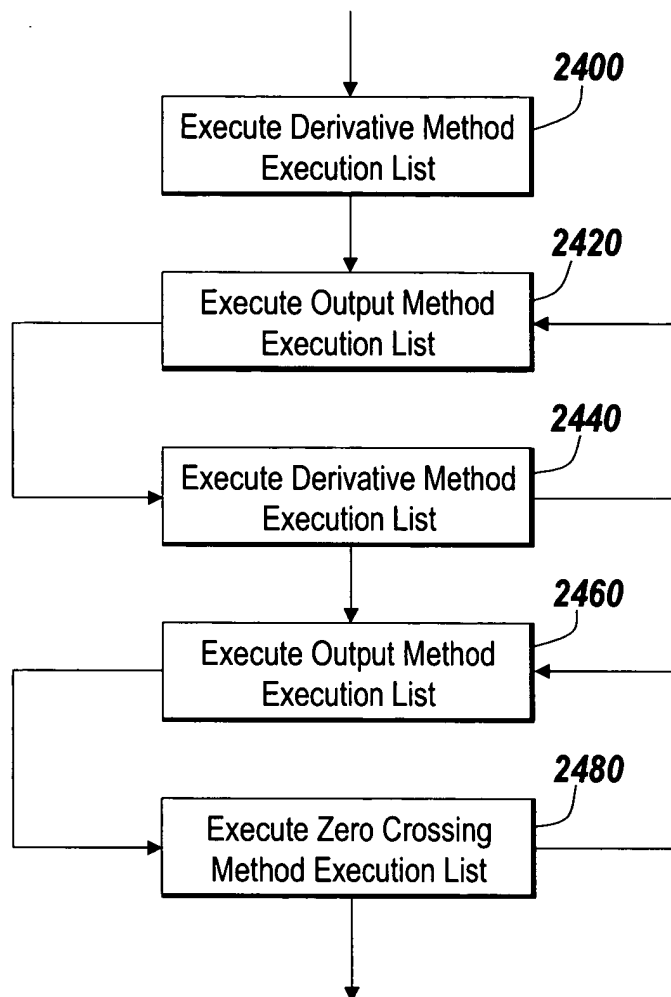


Fig. 14

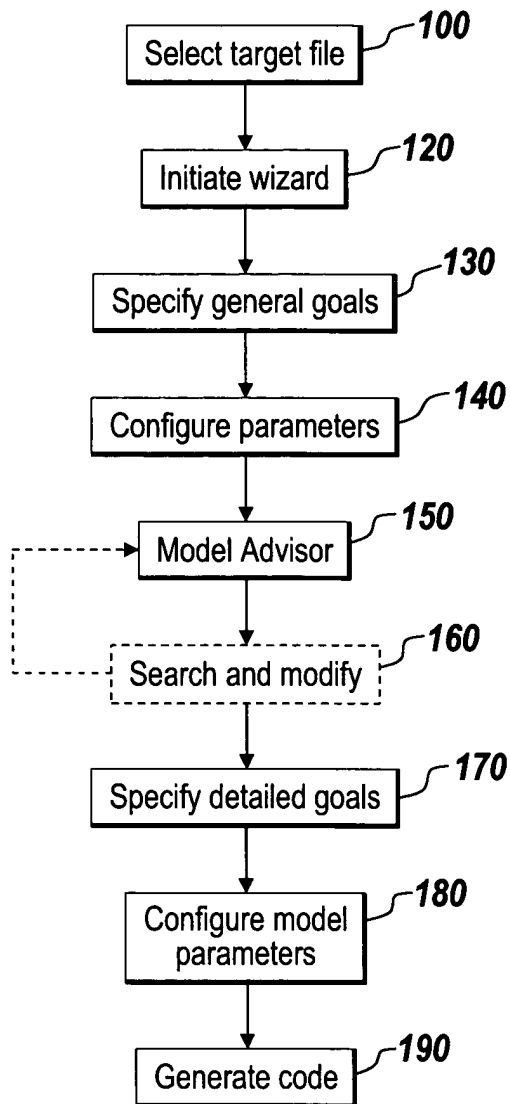


Fig. 15

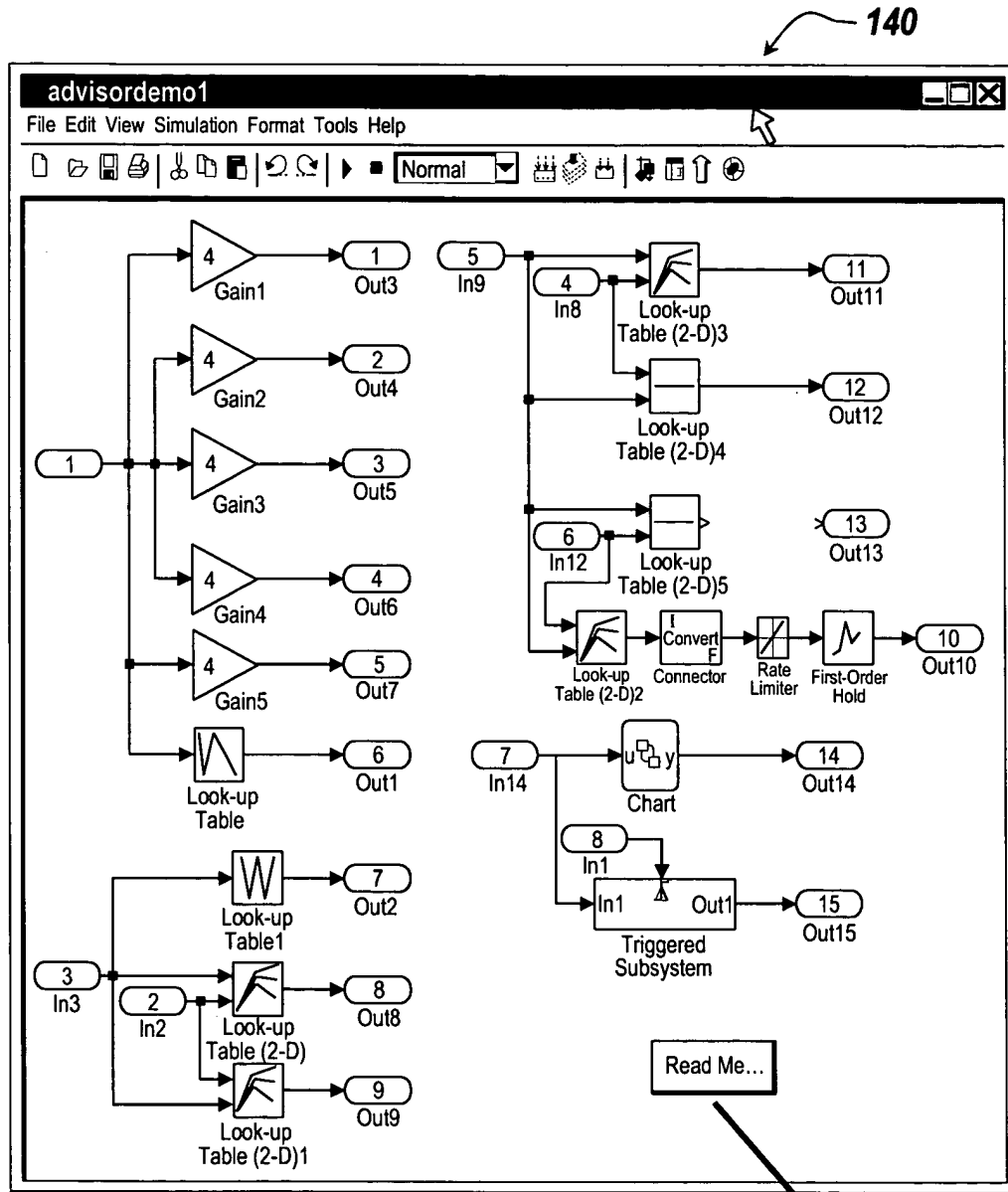


Fig. 16A

See Fig. 16B

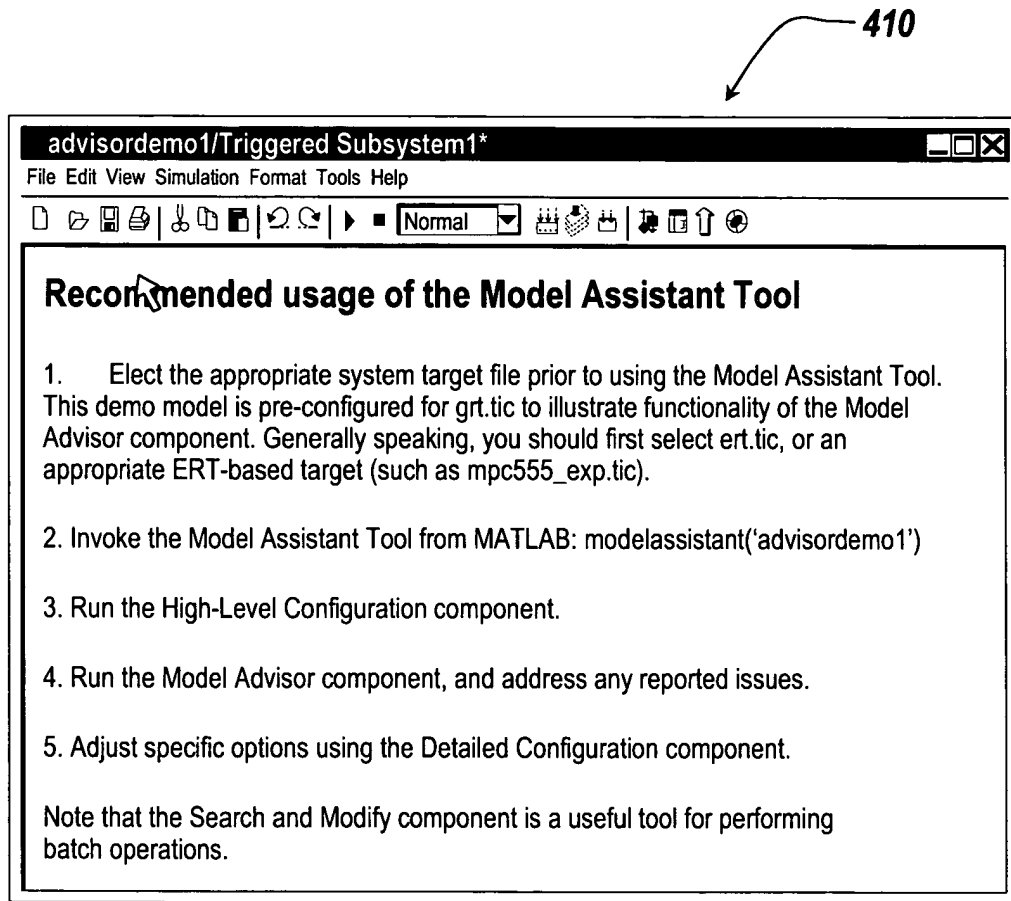


Fig. 16B

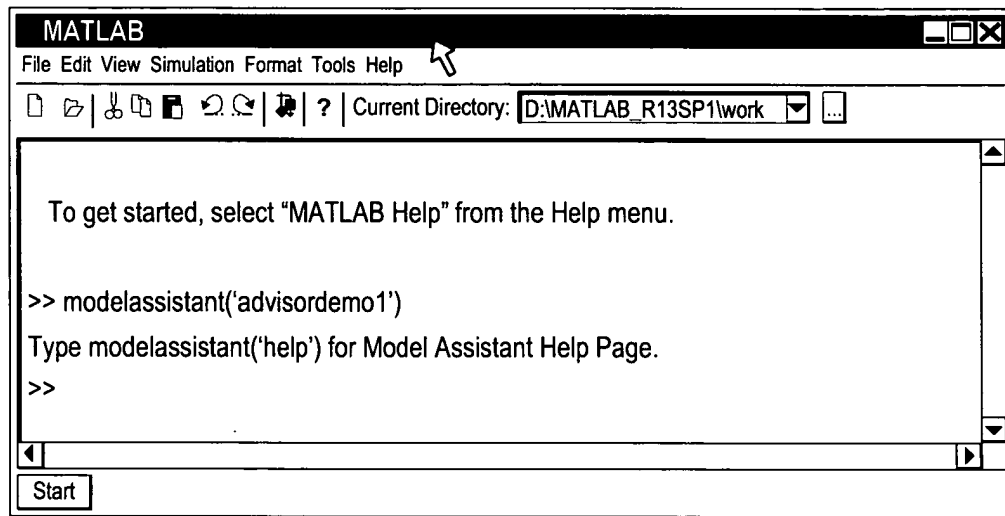


Fig. 16C

1000

Model Assistant: advisordemo1

General Code Generation Goals

Detailed Code Generation Goals

Model Advisor

Search and Modify

Start in system: advisordemo1

Configure model properties based on answers to the following general code generation goals. Configuration goals are designed around Real-Time Workshop Embedded Coder features. For best results, pre-configure your model to use an Embedded Real-Time (ERT) based target, such as `ert.tic` or `mpc555_exp.tic`, prior to configuration.

What is your target application?
Do you want to configure code generation options for maximum efficiency?
What aspect of memory is more important?
What type of auto-generated identifiers do you want (affects code appearance only)?
Do you want to include comments in the generated code?
What is your required interface?
Are you combining multiple into the same executable?
Do you want to include an HTML report with the generated code?

Floating point

Yes

ROM

Verbose

Yes

None

Yes

Yes

Configure Model

Fig. 17

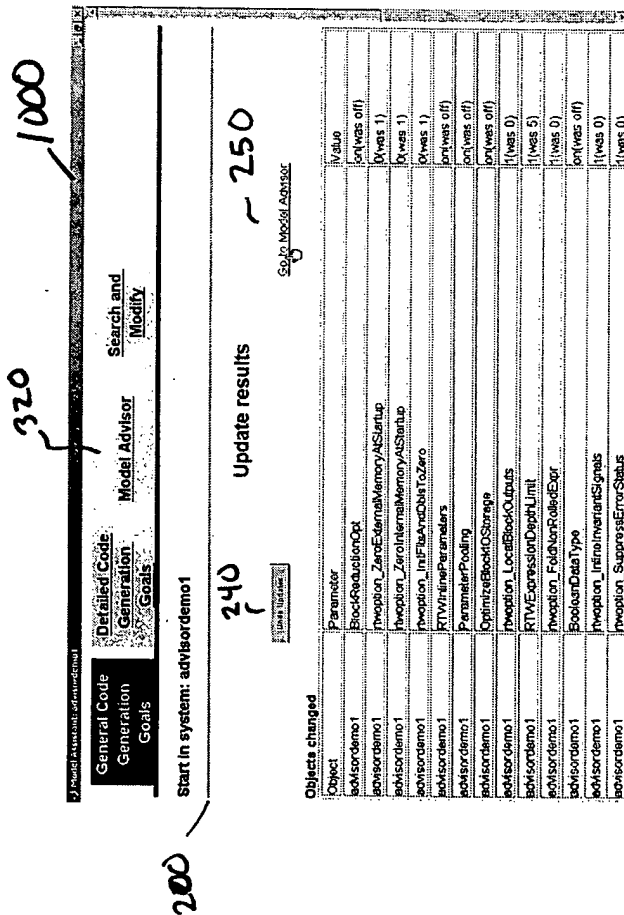


FIGURE 18A

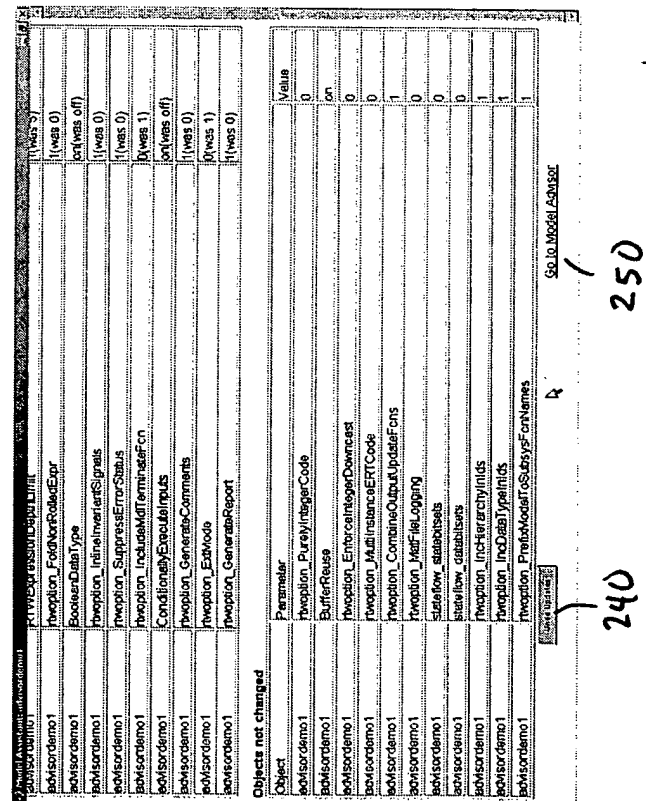


FIGURE 18B

FIGURE 19A

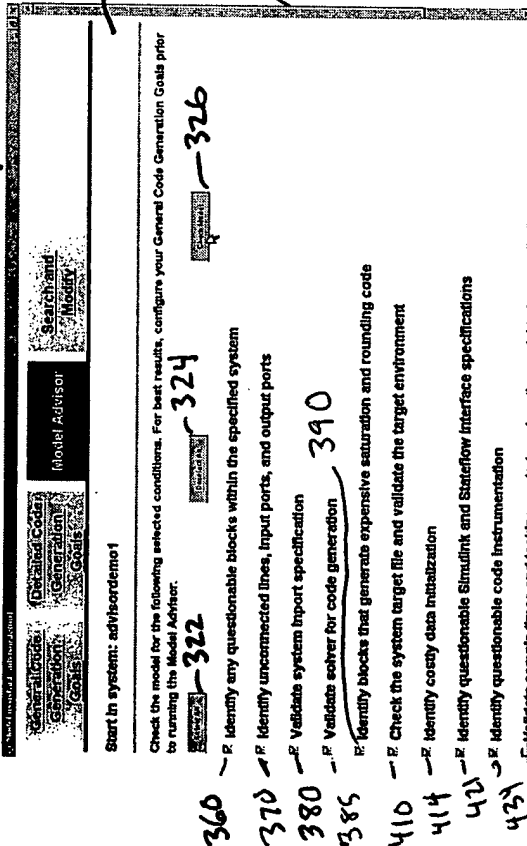


FIGURE 19B

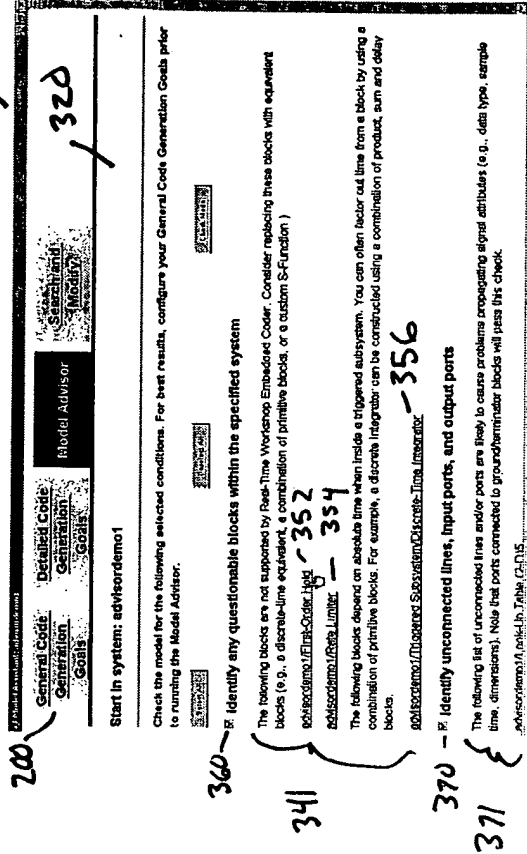


FIGURE 19C

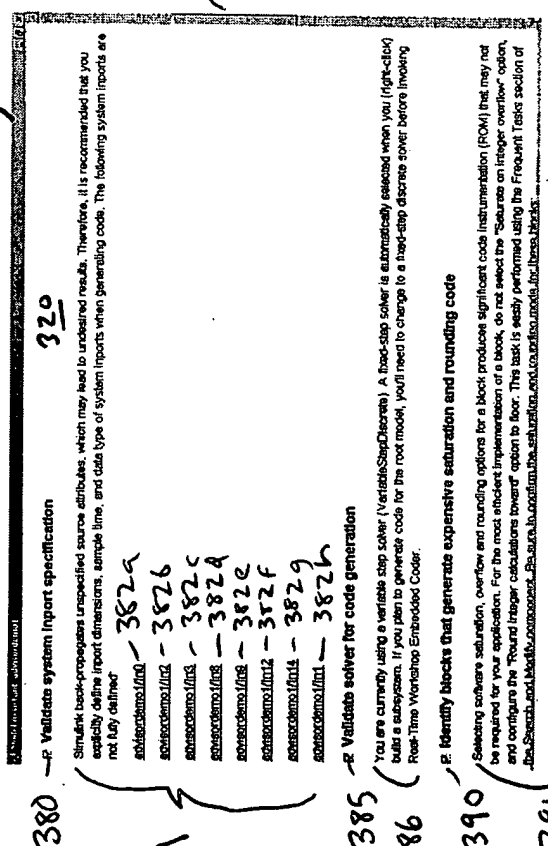


FIGURE 20

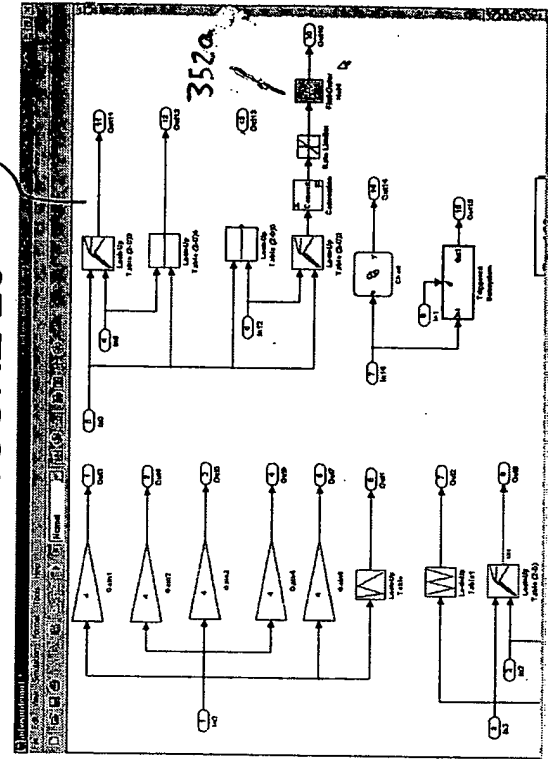


FIGURE 21A

FIGURE 21A

General Code Generation Goals Detailed Code Generation Goals Search and Modify

Start in system: advisordemo1

Search and modify objects in the current system. In each case, the search is performed on all blocks contained within the hierarchy of the active system (not looking under masks.) Attributes are always case insensitive. Values follow the "Match case for value" setting unless otherwise specified.

Frequent tasks - 521
Simulink object search - 511
Stateflow object search
Search and replace Simulink text
Parameter name search
Using prompt string
Using property/value

Simulink object search: specify a general Simulink object search and modify action. This search mechanism is useful when you know the specific names of underlying attributes.

Simulink objects:
Block: ☐ Signal ☐ Annotation ☐ Input port ☐ Output port

Search criteria:
P: Block ☐ Signal ☐ Annotation ☐ Input port ☐ Output port

Predefined options:
☐ Match type ☐ Match value ☐ Match name ☐ Match description

Other parameters (specify):
☐ Match case for value ☐ Show full path name

AND AND AND AND AND AND

515 500

FIGURE 21B

FIGURE 21B

General Code Generation Goals Detailed Code Generation Goals Search and Modify

Start in system: advisordemo1

Search and modify objects in the current system. In each case, the search is performed on all blocks contained within the hierarchy of the active system (not looking under masks.) Attributes are always case insensitive. Values follow the "Match case for value" setting unless otherwise specified.

Frequent tasks - 521
Simulink object search - 511
Stateflow object search
Search and replace Simulink text
Parameter name search
Using prompt string
Using property/value

Simulink object search: specify a general Simulink object search and modify action. This search mechanism is useful when you know the specific names of underlying attributes.

Simulink objects:
Block: ☐ Signal ☐ Annotation ☐ Input port ☐ Output port

Search criteria:
P: Block ☐ Signal ☐ Annotation ☐ Input port ☐ Output port

Predefined options:
☐ Match type ☐ Match value ☐ Match name ☐ Match description

Other parameters (specify):
☐ Match case for value ☐ Show full path name

AND AND AND AND AND AND

515 500

FIGURE 21C

General Code Generation Goals Detailed Code Generation Goals Search and Modify

Start in system: advisordemo1

Search and modify objects in the current system. In each case, the search is performed on all blocks contained within the hierarchy of the active system (not looking under masks.) Attributes are always case insensitive. Values follow the "Match case for value" setting unless otherwise specified.

Frequent tasks - 521
Simulink object search - 511
Stateflow object search
Search and replace Simulink text
Parameter name search
Using prompt string
Using property/value

Simulink object search: specify a general Simulink object search and modify action. This search mechanism is useful when you know the specific names of underlying attributes.

Simulink objects:
Block: ☐ Signal ☐ Annotation ☐ Input port ☐ Output port

Search criteria:
P: Block ☐ Signal ☐ Annotation ☐ Input port ☐ Output port

Predefined options:
☐ Match type ☐ Match value ☐ Match name ☐ Match description

Other parameters (specify):
☐ Match case for value ☐ Show full path name

AND AND AND AND AND AND

515 500

FIGURE 21D

General Code Generation Goals Detailed Code Generation Goals Search and Modify

Start in system: advisordemo1

Search and modify objects in the current system. In each case, the search is performed on all blocks contained within the hierarchy of the active system (not looking under masks.) Attributes are always case insensitive. Values follow the "Match case for value" setting unless otherwise specified.

Frequent tasks - 521
Simulink object search - 511
Stateflow object search
Search and replace Simulink text
Parameter name search
Using prompt string
Using property/value

Simulink object search: specify a general Simulink object search and modify action. This search mechanism is useful when you know the specific names of underlying attributes.

Simulink objects:
Block: ☐ Signal ☐ Annotation ☐ Input port ☐ Output port

Search criteria:
P: Block ☐ Signal ☐ Annotation ☐ Input port ☐ Output port

Predefined options:
☐ Match type ☐ Match value ☐ Match name ☐ Match description

Other parameters (specify):
☐ Match case for value ☐ Show full path name

AND AND AND AND AND AND

515 500

FIGURE 21C

FIGURE 21D

FIGURE 22B - 600

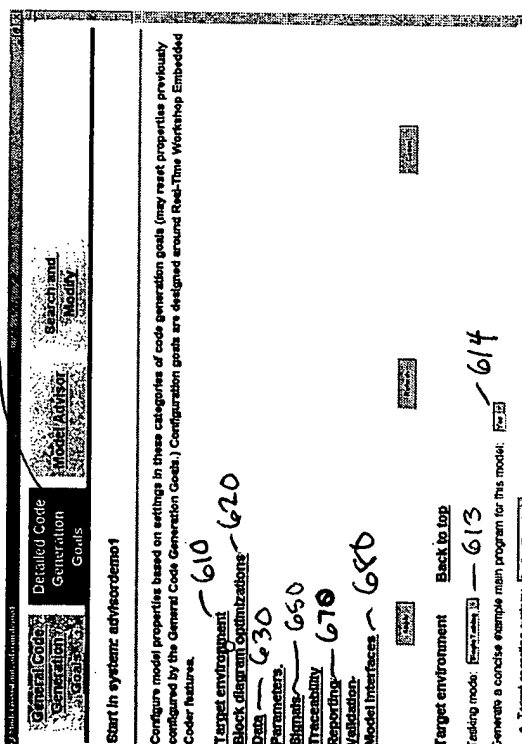


FIGURE 22C

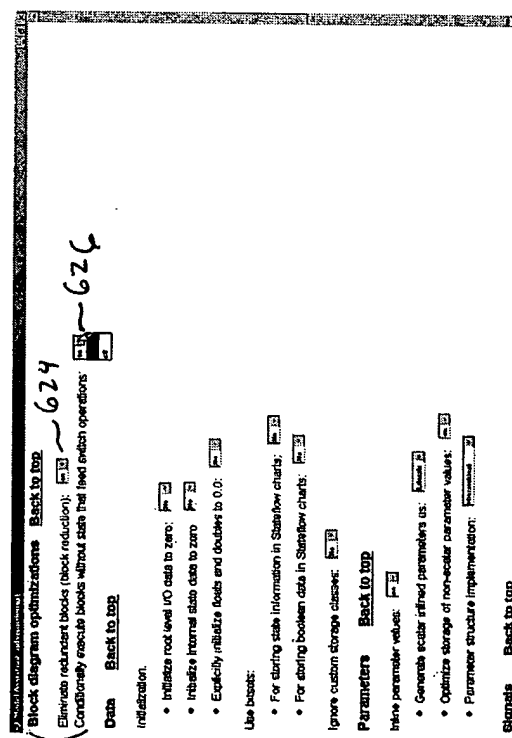


FIGURE 22D

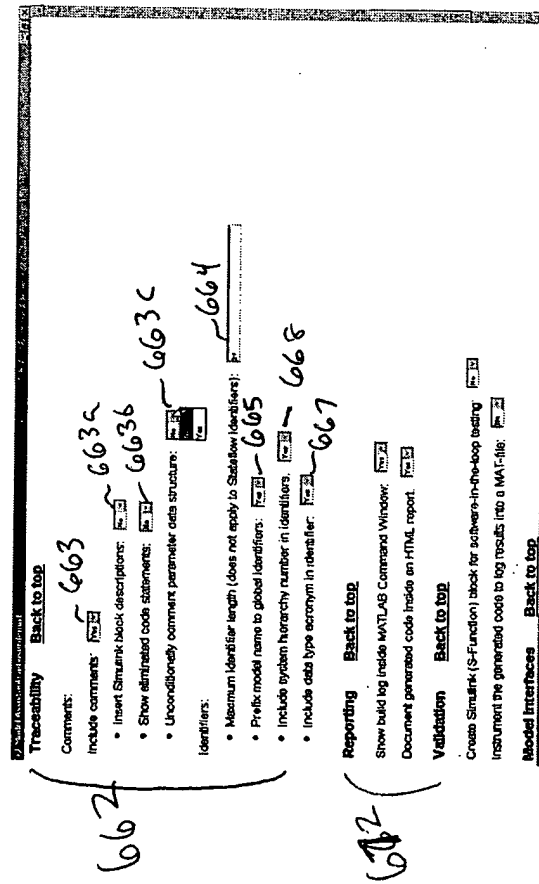
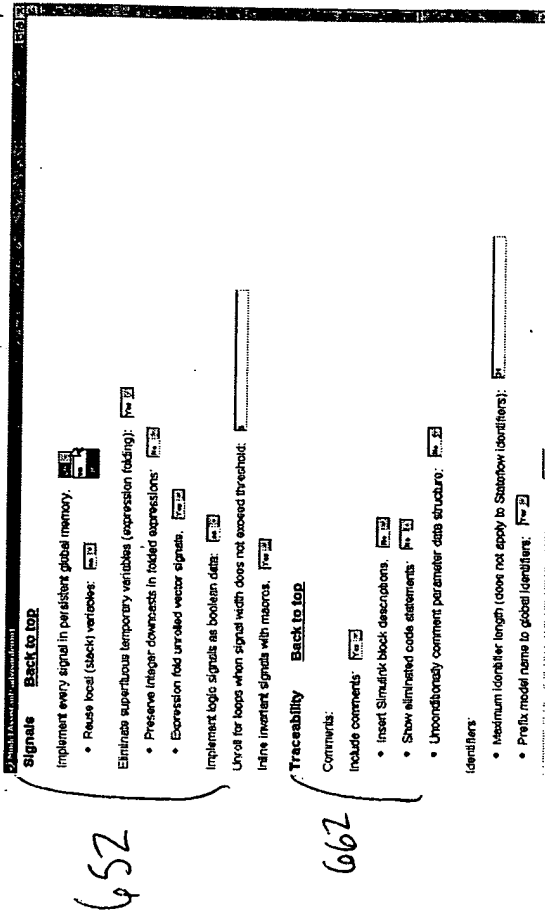


FIGURE 22E

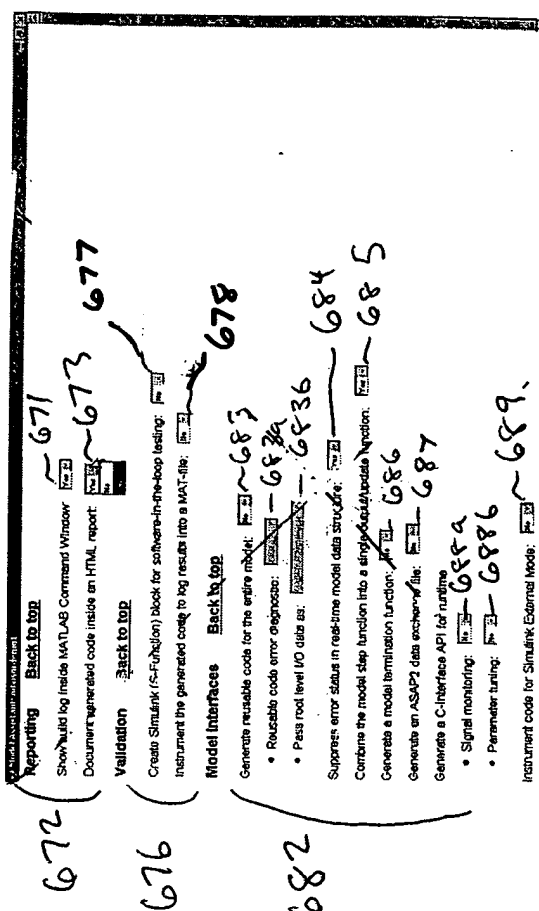


FIGURE 22F

FIGURE 226

Start in system: **advisordemo1**

Configure model properties based on settings in these categories of code generation goals (may reset properties previously configured by the General Code Generation Goals.) Configuration goals are designed around Real-Time Workshop Embedded Coder features.

Target environment

Block diagram optimizations

Data

Parameters

Signals

Traceability

Reporting

Validation

Model interfaces

Target environment

Back to top

Testing mode: **Real-time**

Generate a concise example main program for this model: **No**

Detailed Code Generation Goals

Generate Code

Generate Goals

Search and Modify

FIGURE 23

Start in system: **advisordemo1**

Update results

Objects changed

Object	Parameter	Value
advisordemo1	hwoption_MultitaskedECRTCode	hwes D

Objects not changed

Object	Parameter	Value
advisordemo1	hwoption_SolverMode	SingleTasking
advisordemo1	hwoption_GenerateSampleRTMain	1
advisordemo1	hwoption_TerminalOS	BoardBoardExample
advisordemo1	hwoption_PureIntegerCode	0
advisordemo1	hwoption_GenFunctWithForCuts	ANSI C
advisordemo1	hwoption_DeviceType	Microprocessor
advisordemo1	hwoption_HardwiredLamps	8, 10, 10, 32
advisordemo1	hwoption_BackgroundOpt	on
advisordemo1	hwoption_ConditionallyExecutableInputs	on

Detailed Code Generation Goals

Generate Code

Generate Goals

Search and Modify